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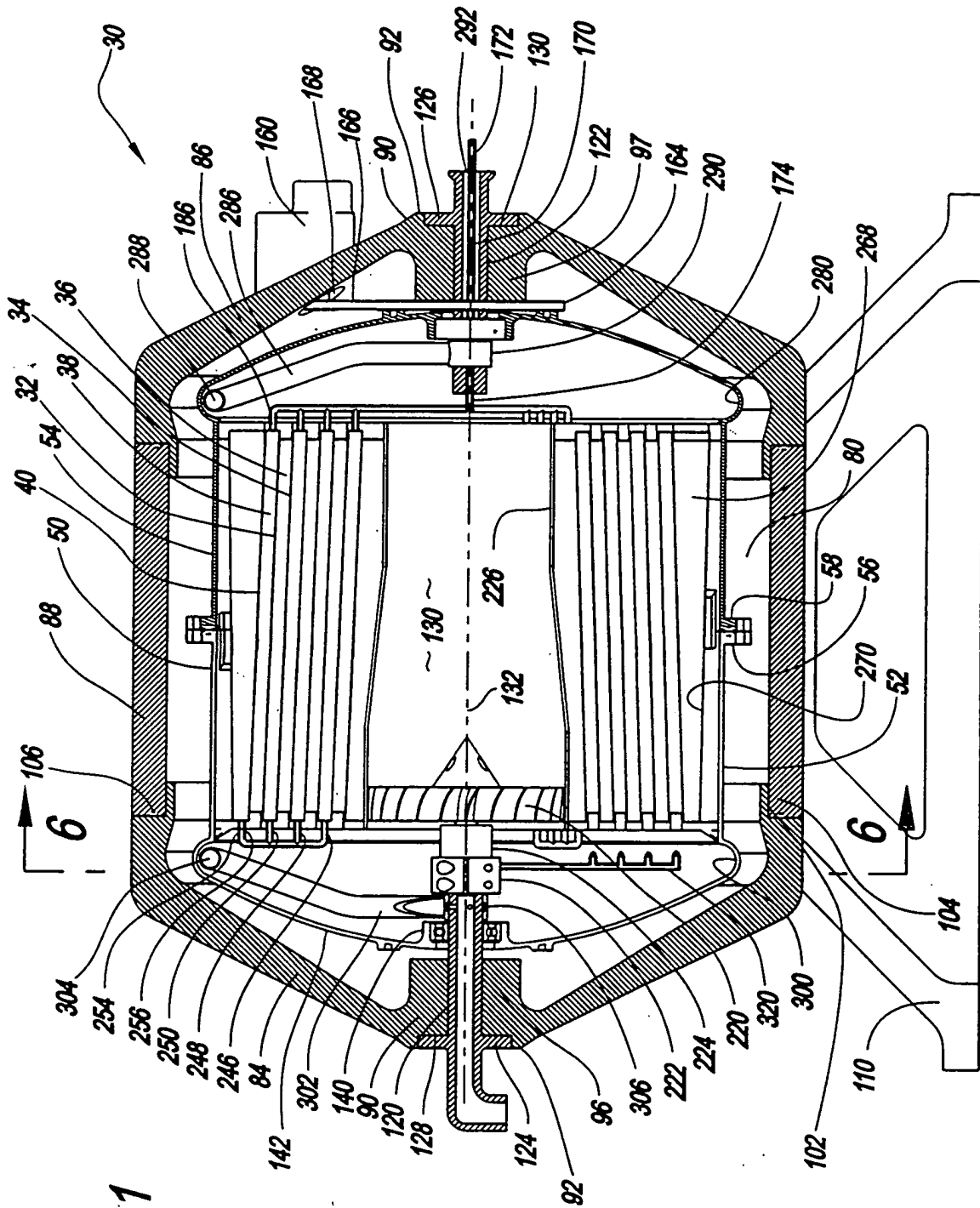


FIG. 1

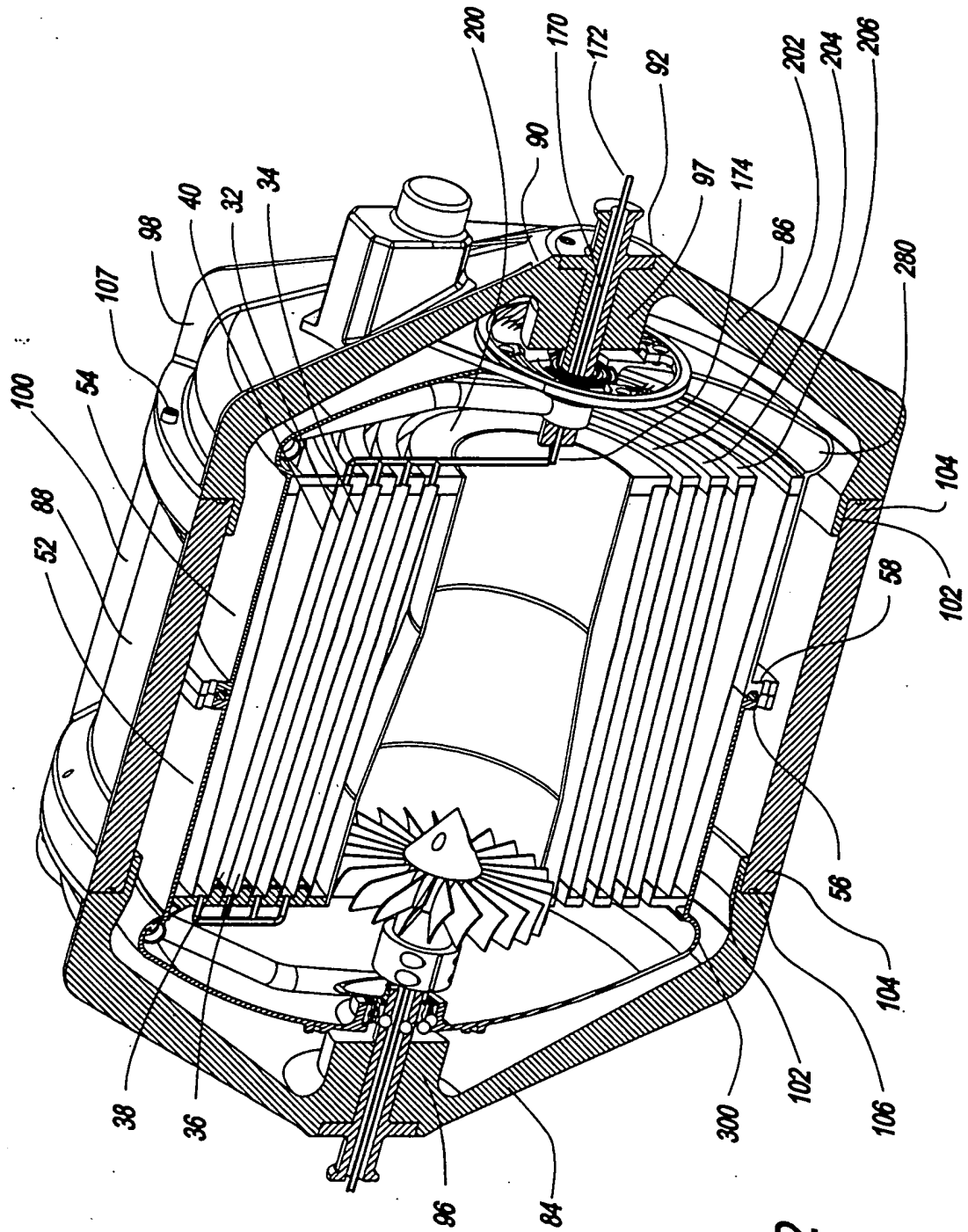


FIG. 2

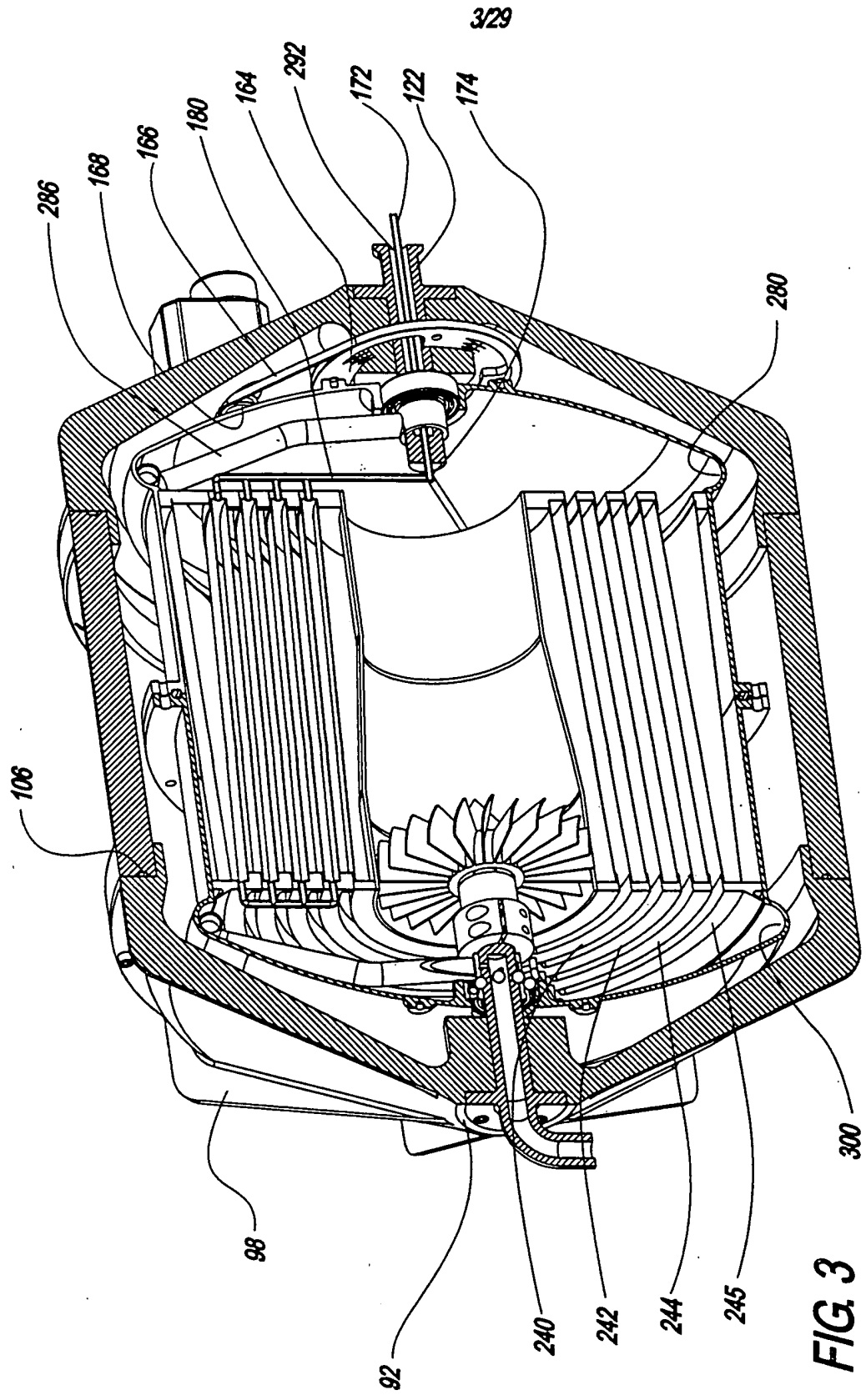
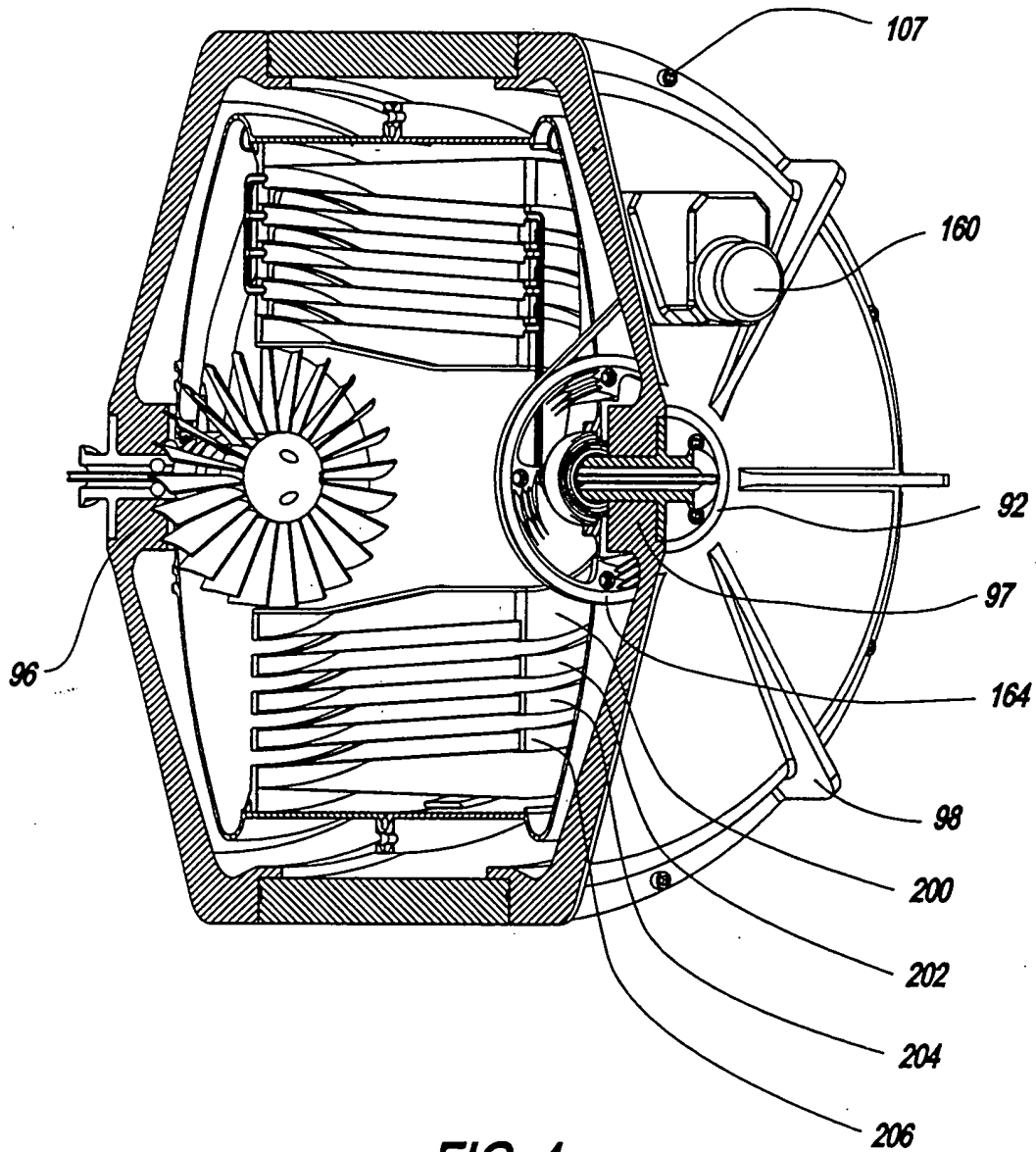


FIG. 3



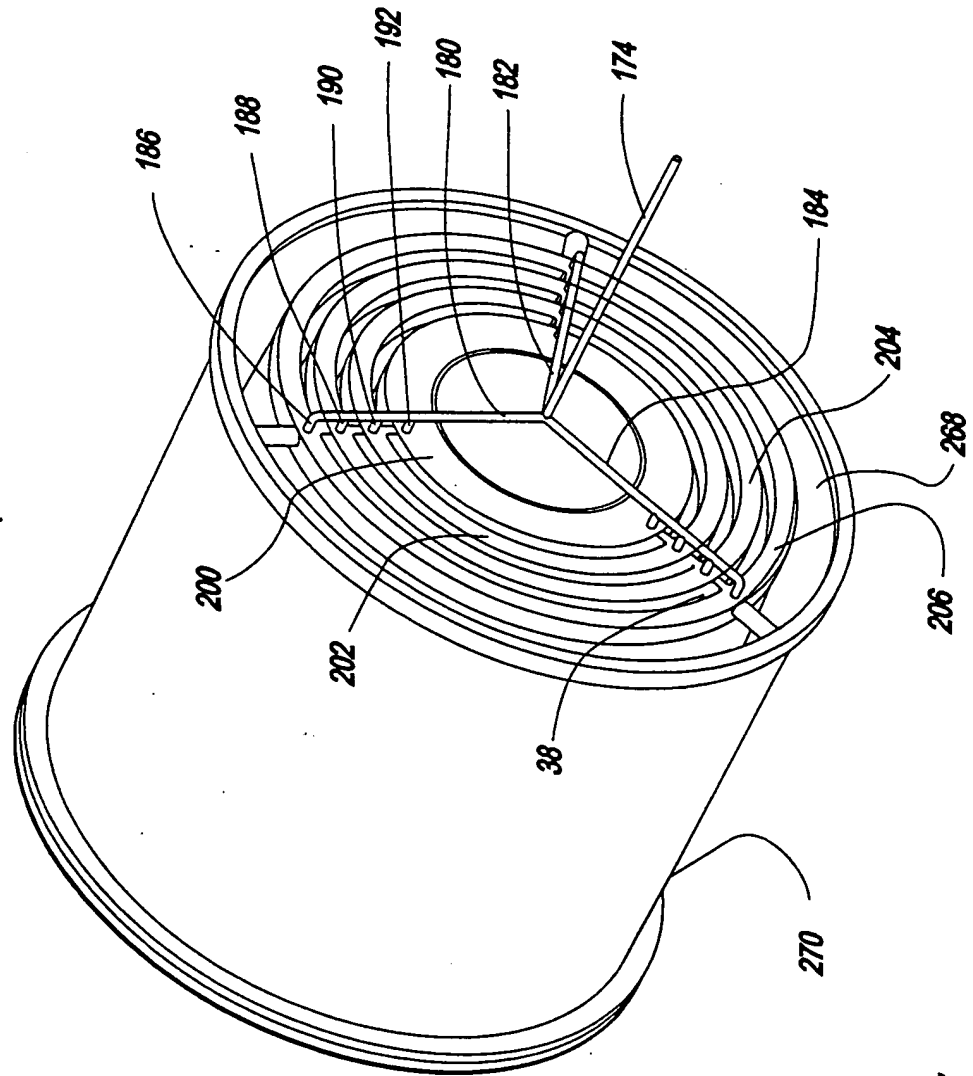
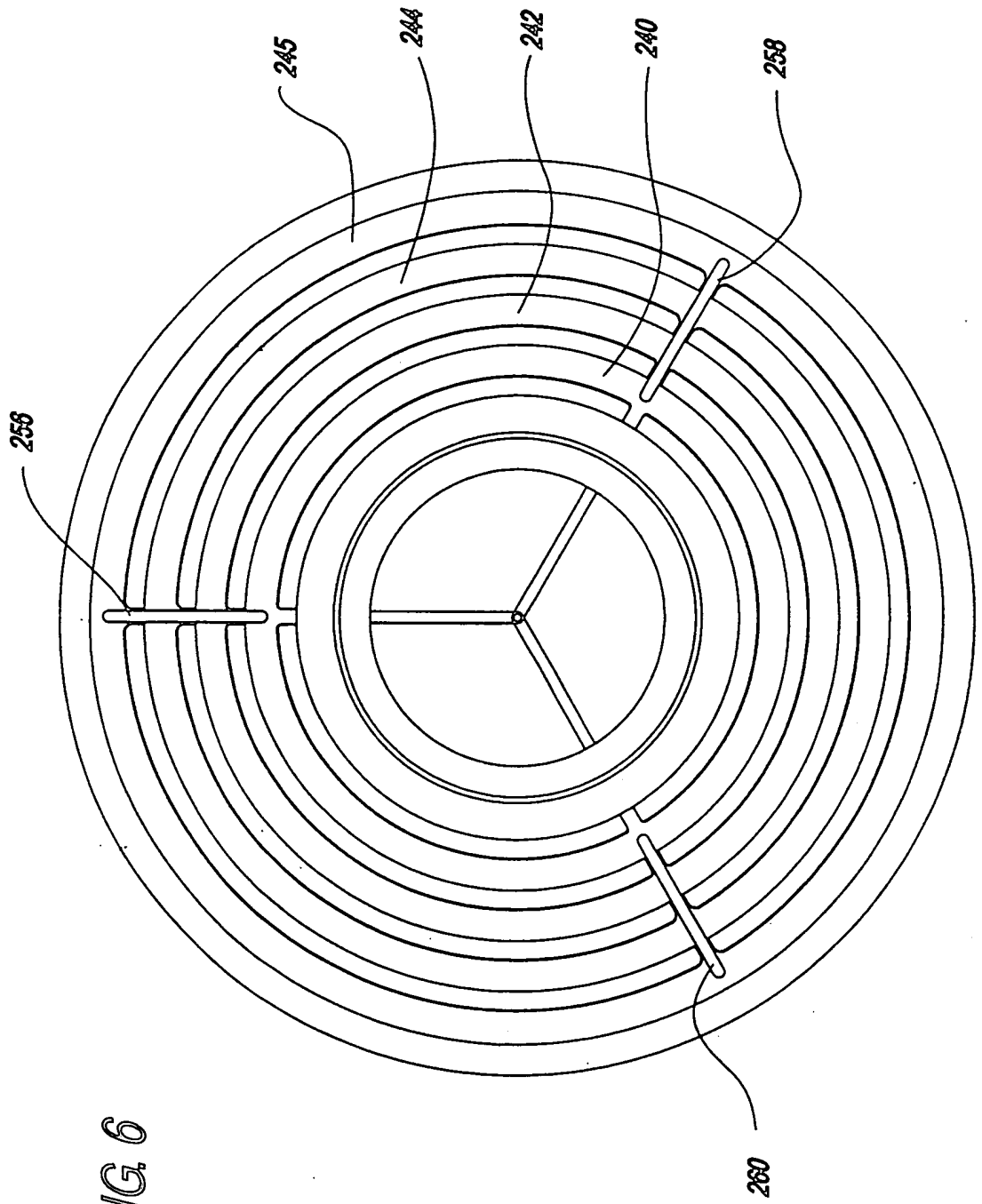


FIG. 5



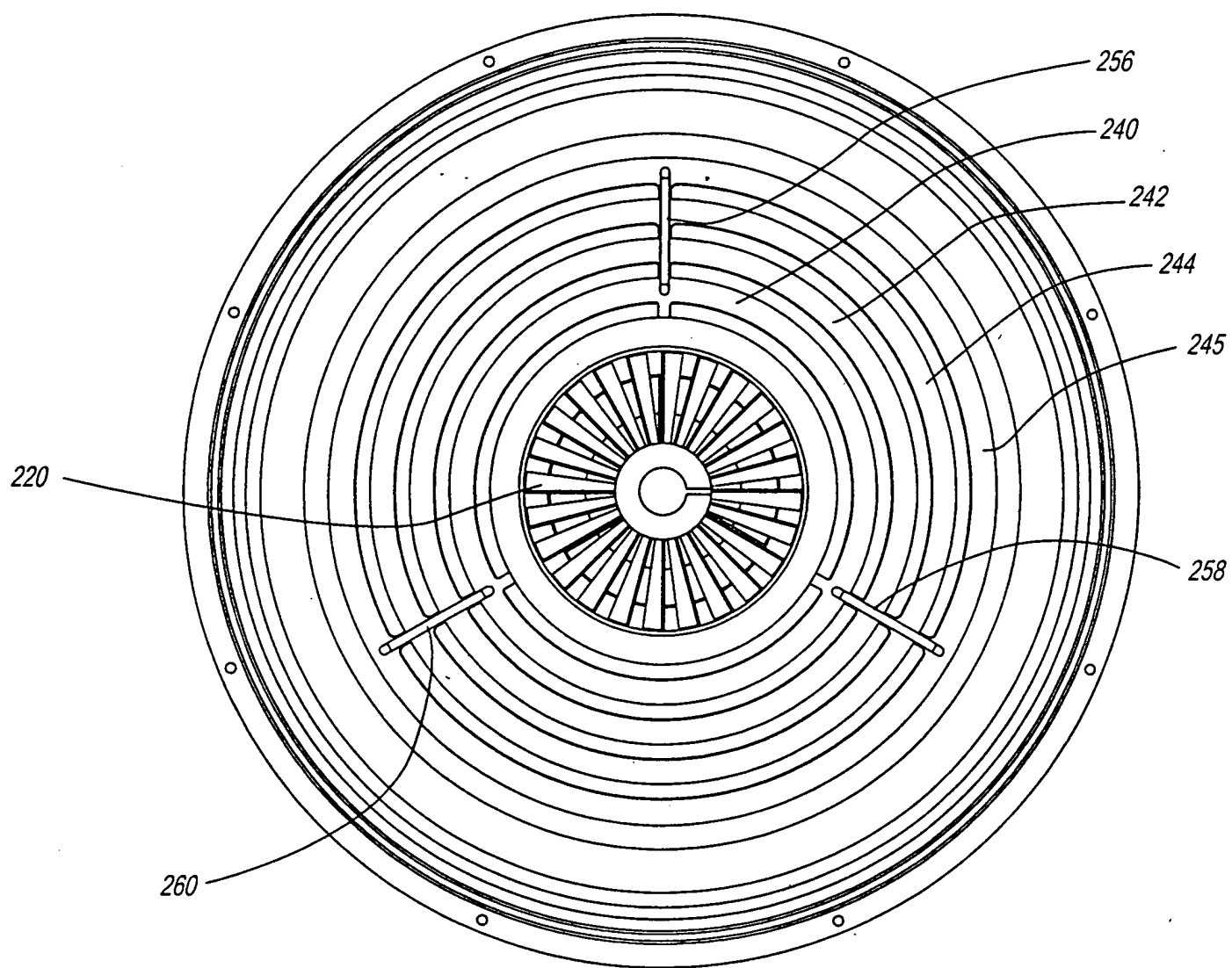


FIG. 7

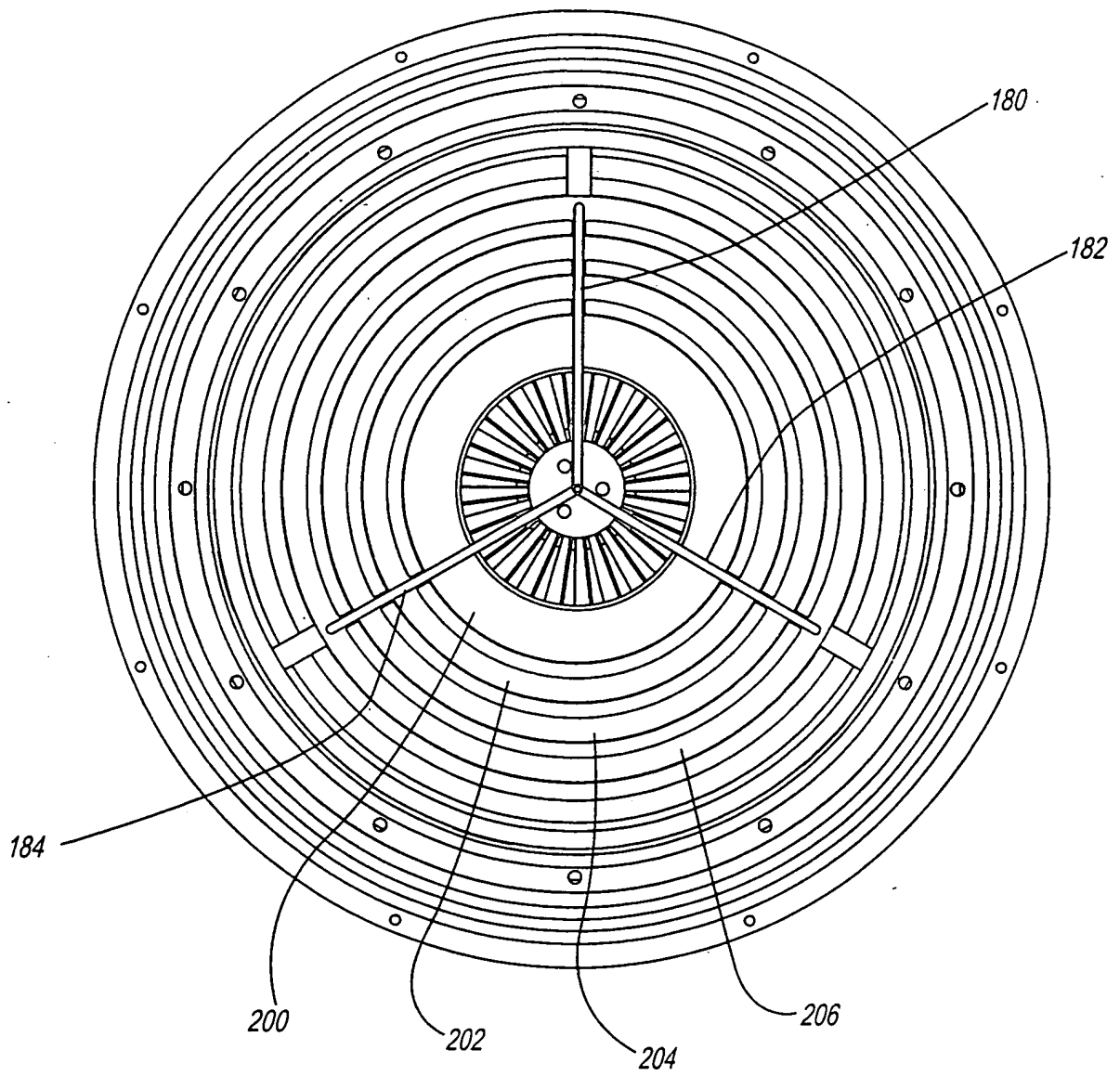
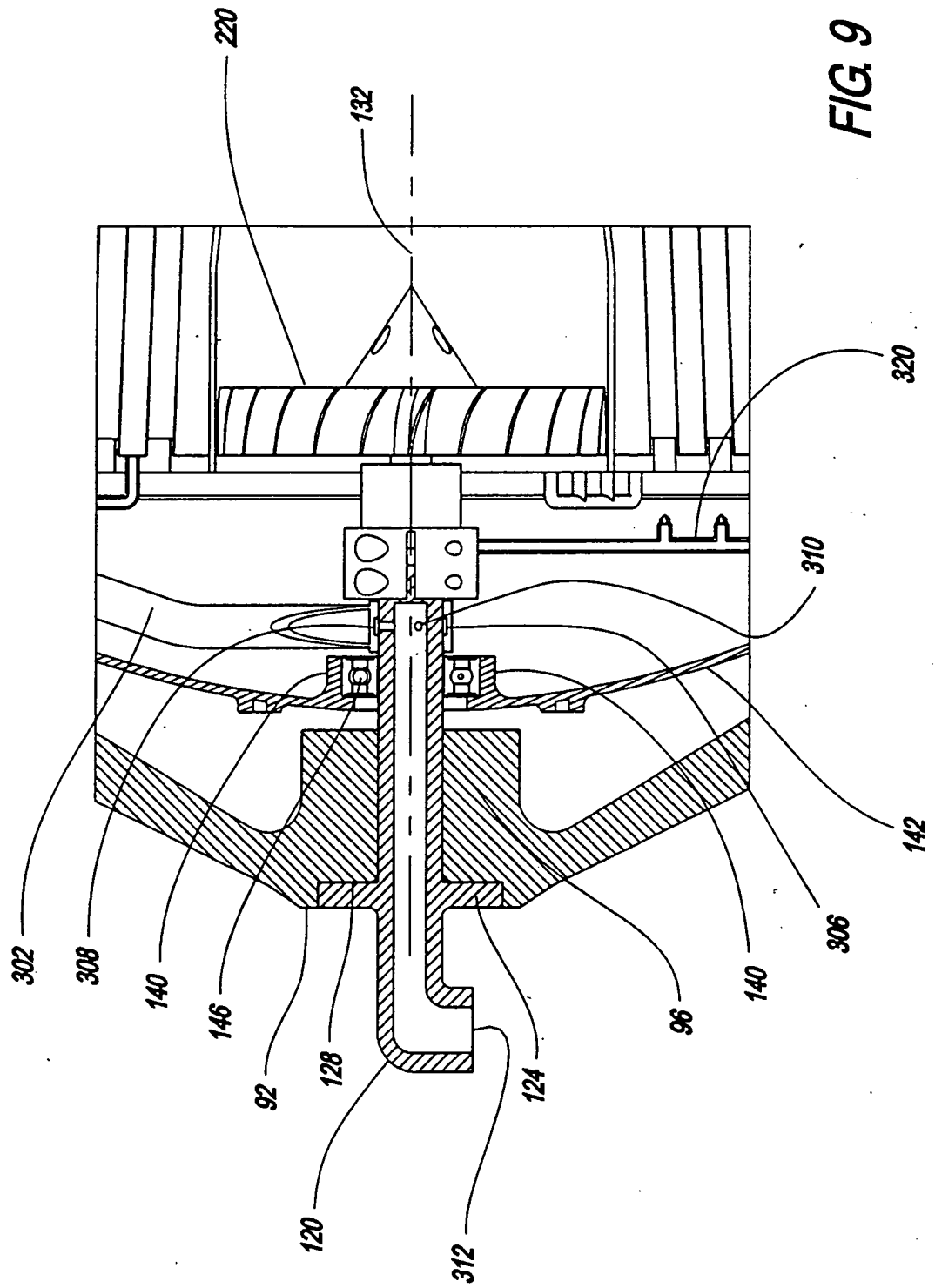


FIG. 8



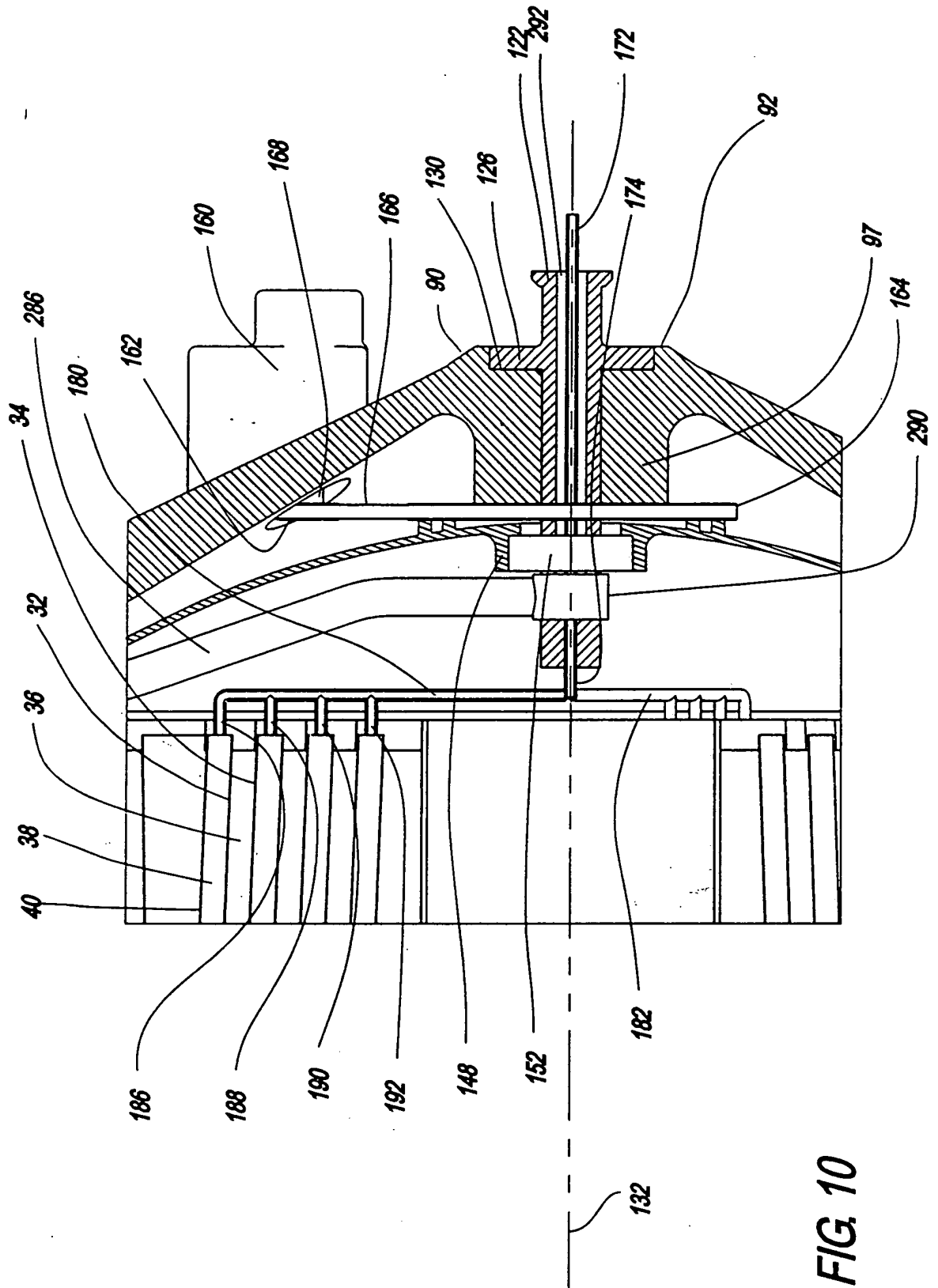


FIG. 10

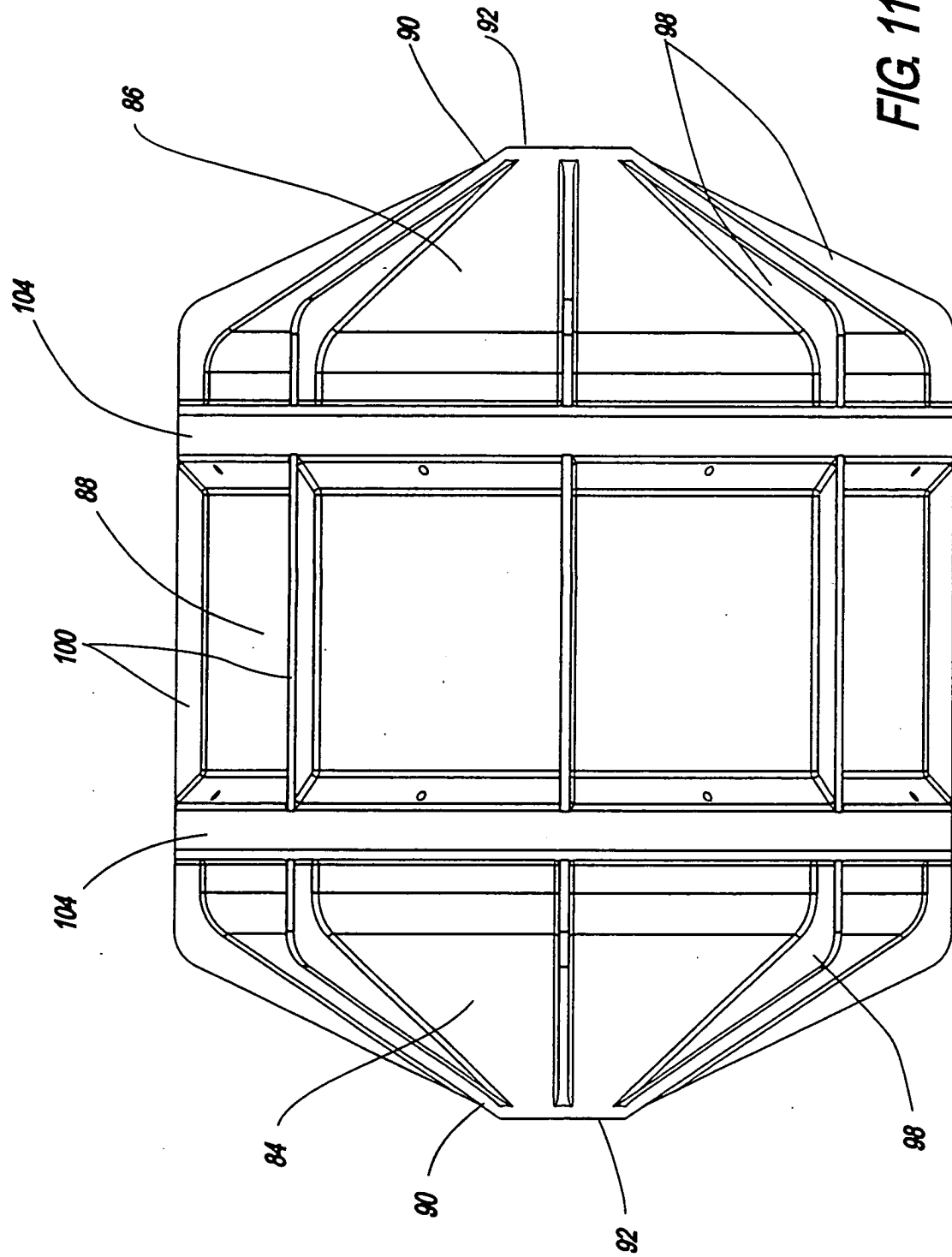


FIG. 11

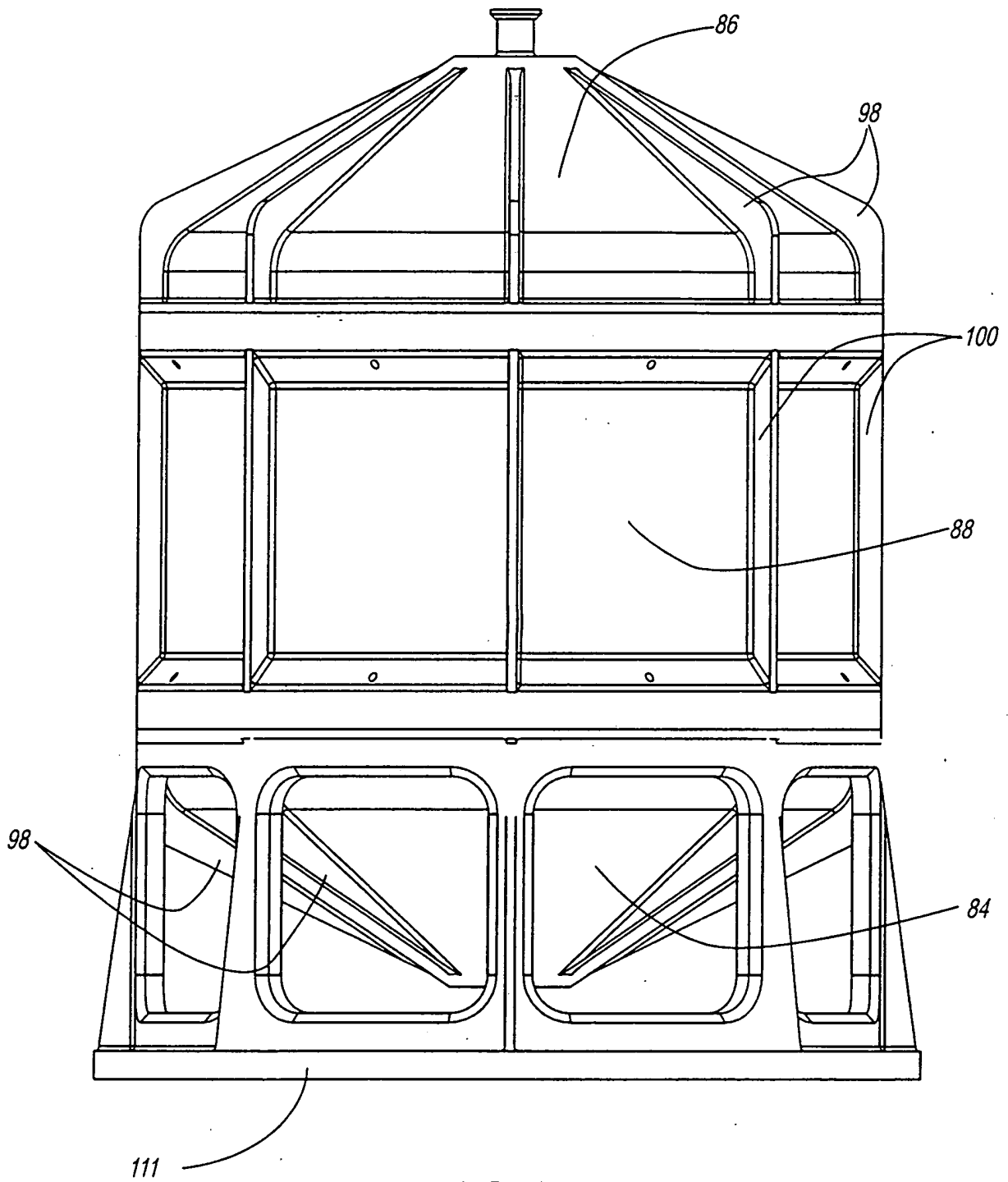


FIG. 12

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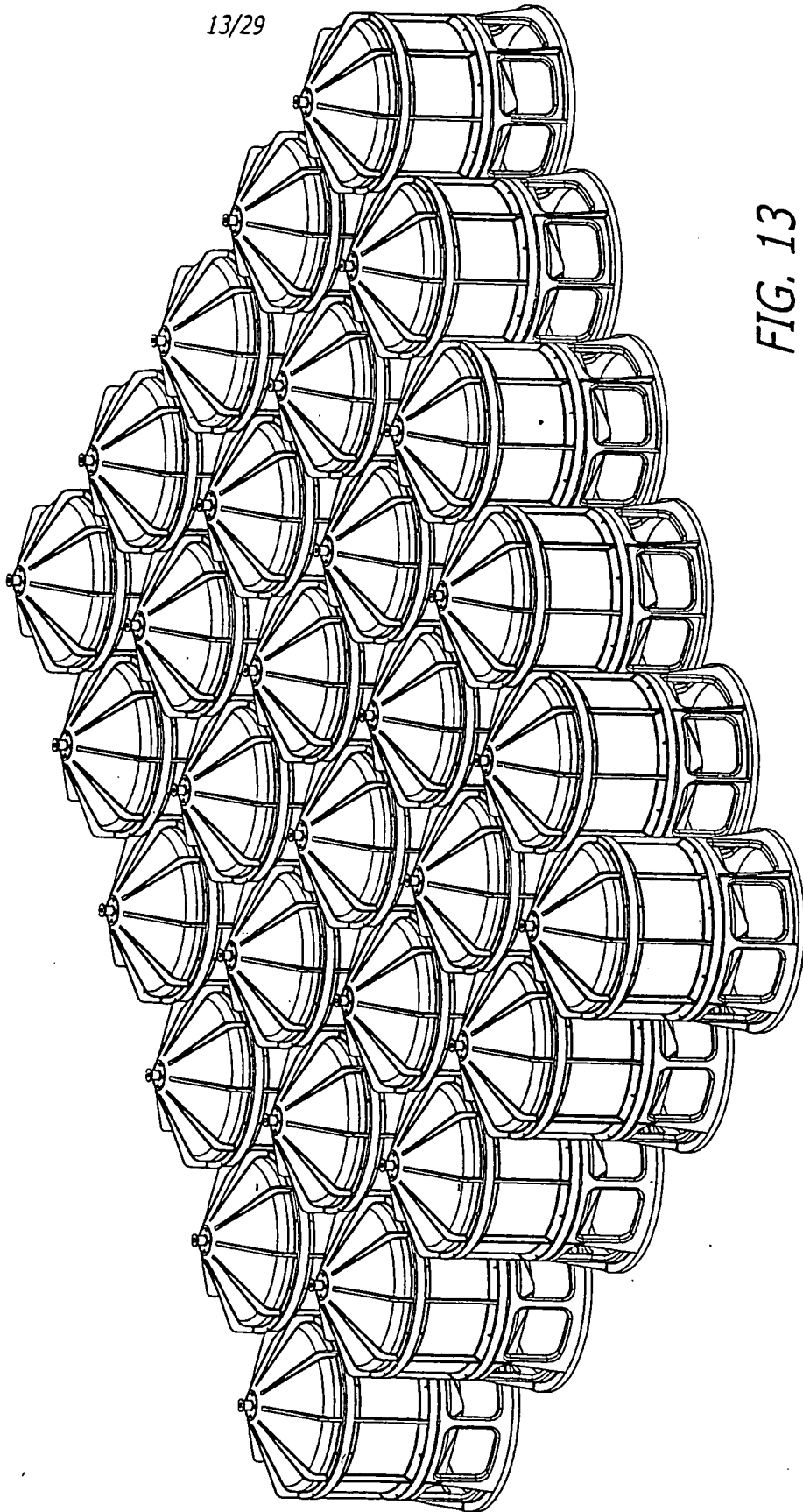


FIG. 13

FIG. 16

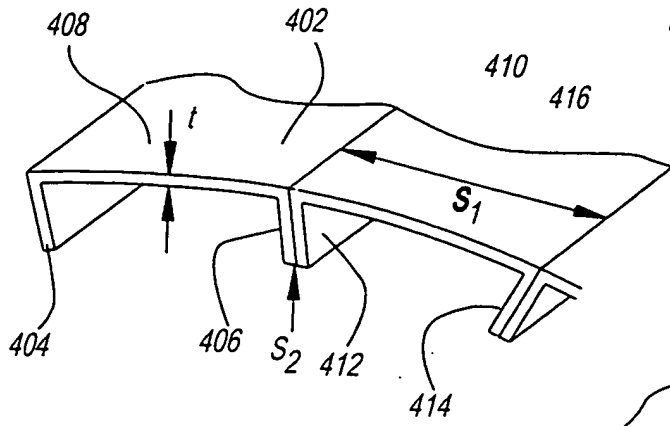


FIG. 15

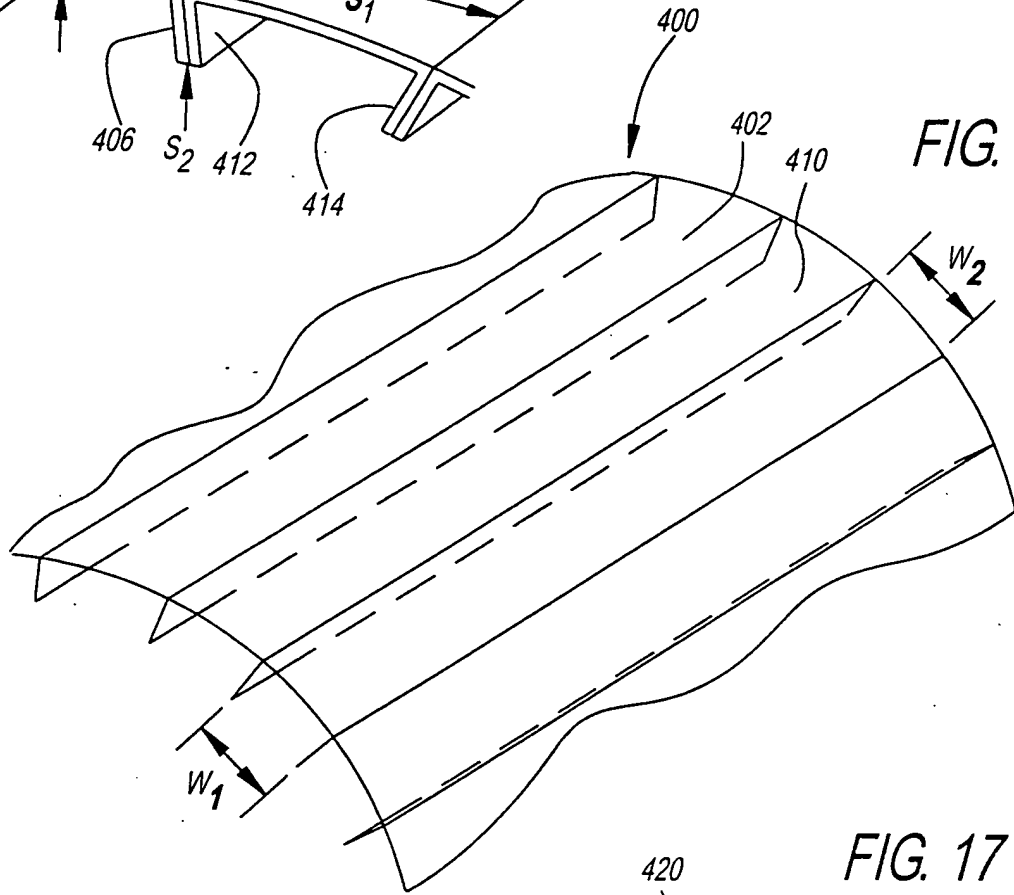


FIG. 17

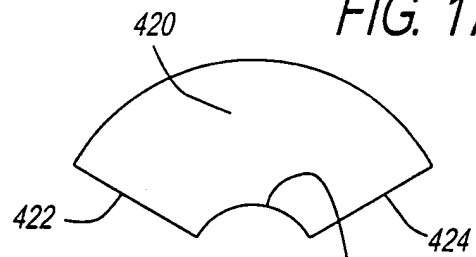
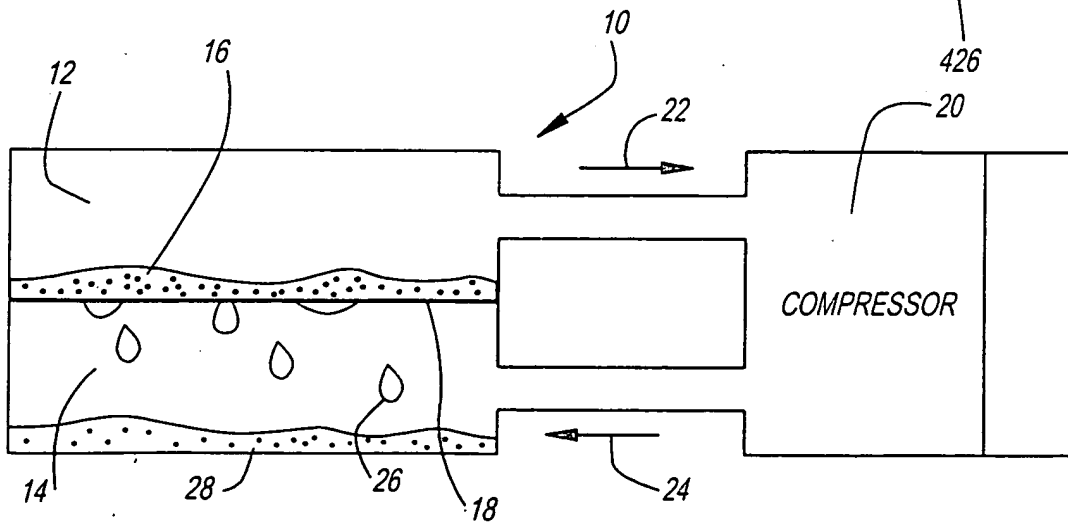


FIG. 14 Prior Art



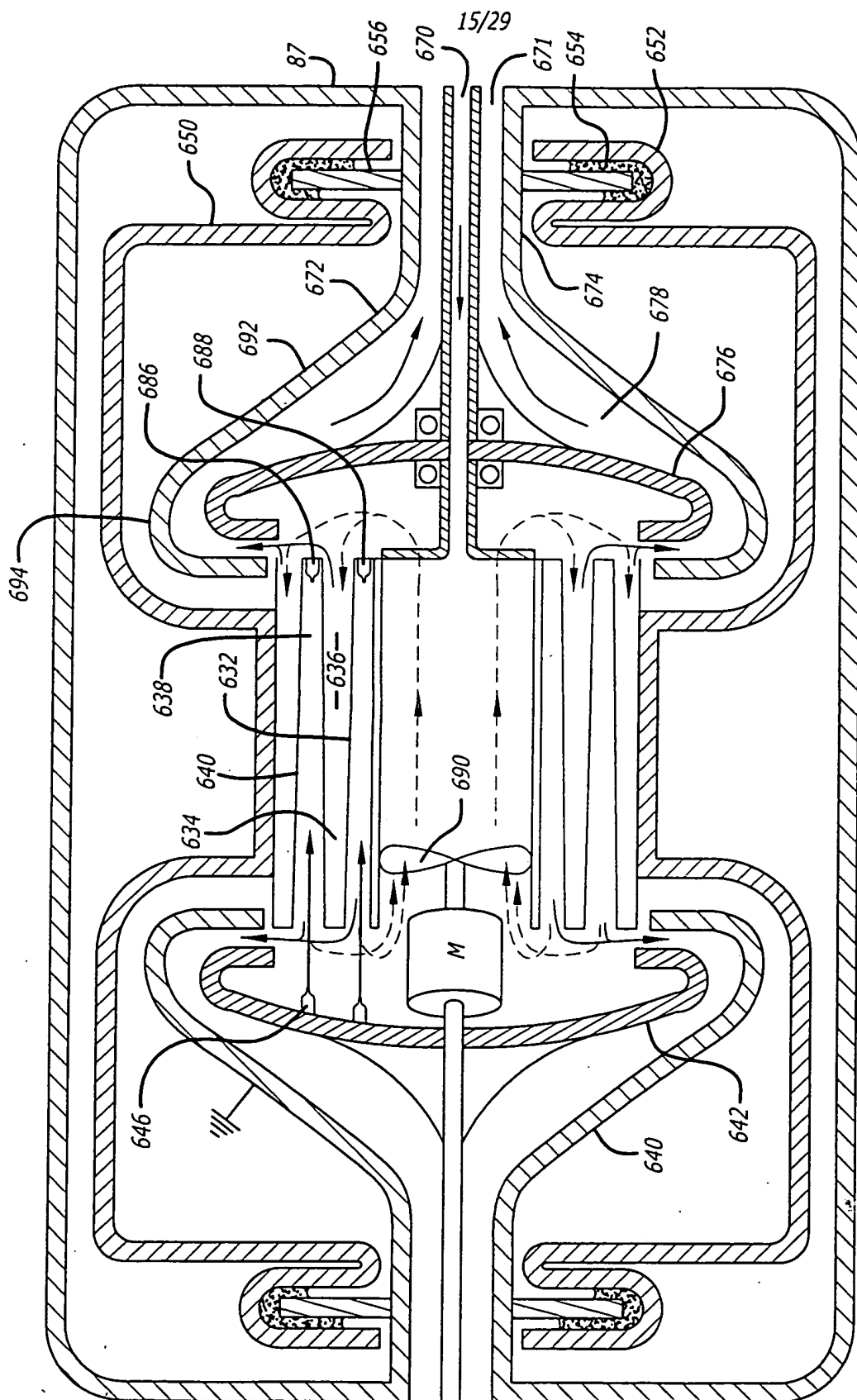


FIG. 18

Boiling Heat Transfer Predictions

70 °F Ambient Input: $C_{SF} = 0.0058$ (Teflon Coated Stainless)

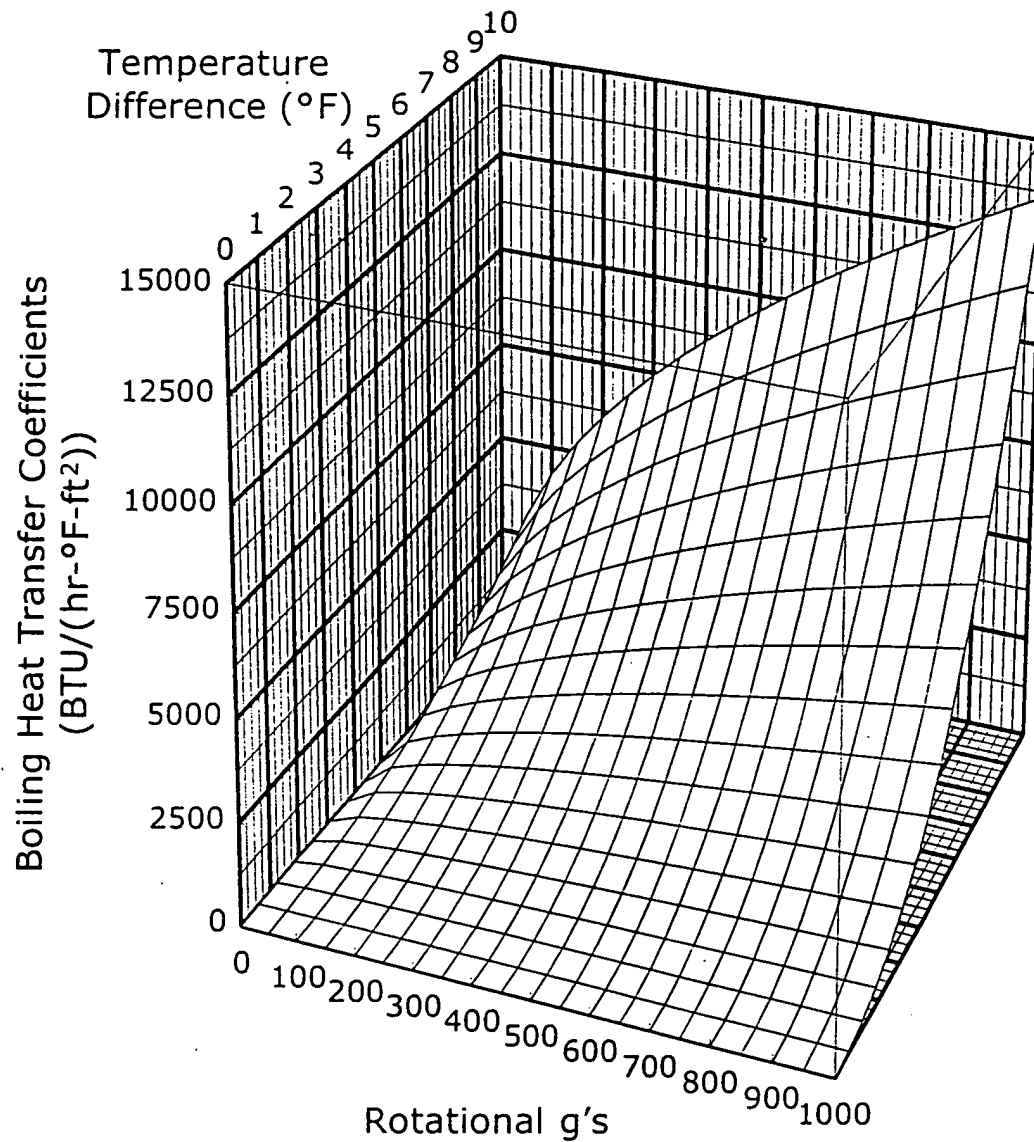


Fig. 19

Boiling Heat Transfer Predictions

70 °F Ambient Input: $C_{SF} = 0.0080$ (Ground Polished Stainless)

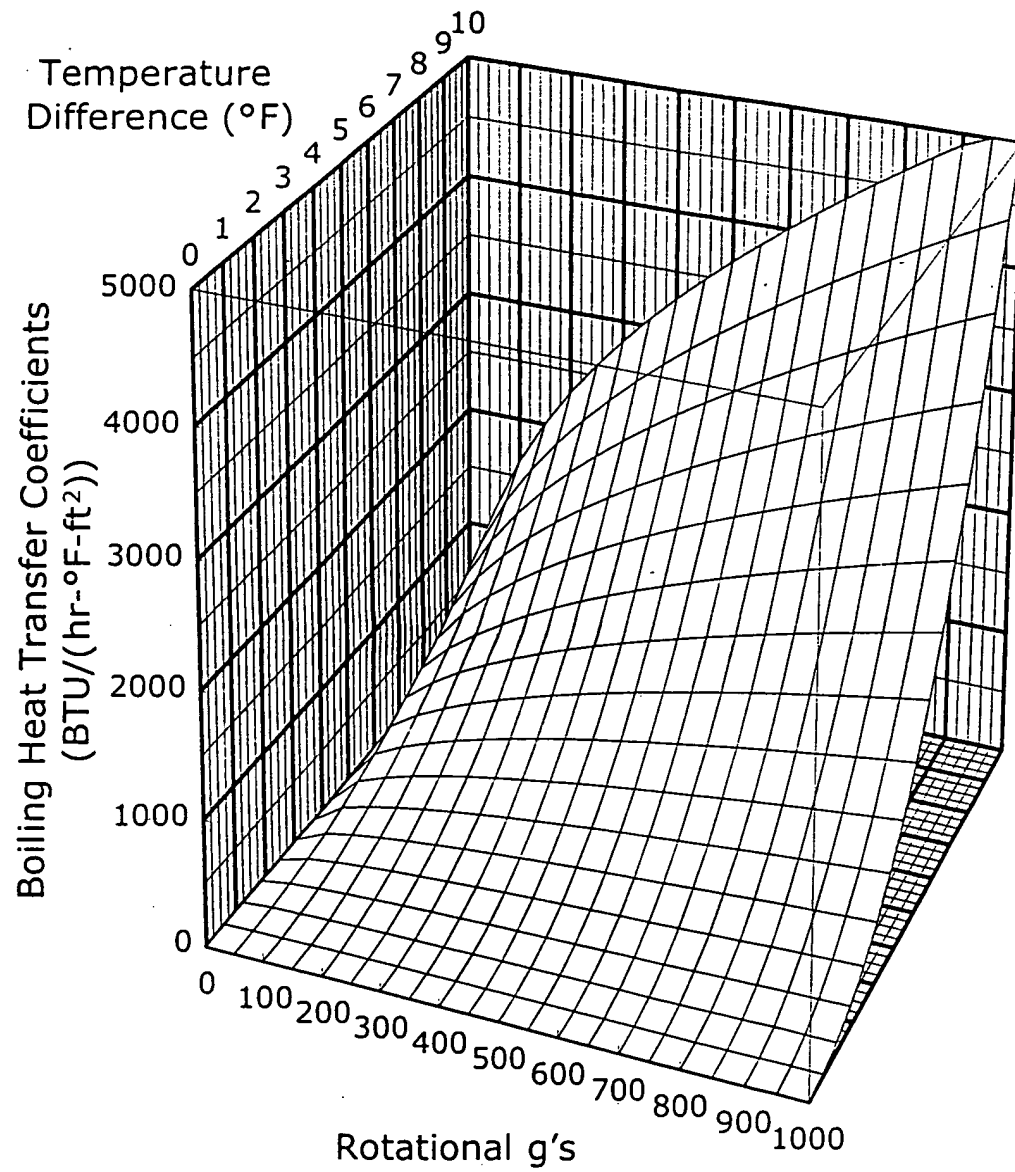


Fig. 20

Boiling Heat Transfer Predictions

90 °F Ambient Input: $C_{SF} = 0.0058$ (Teflon Coated Stainless)

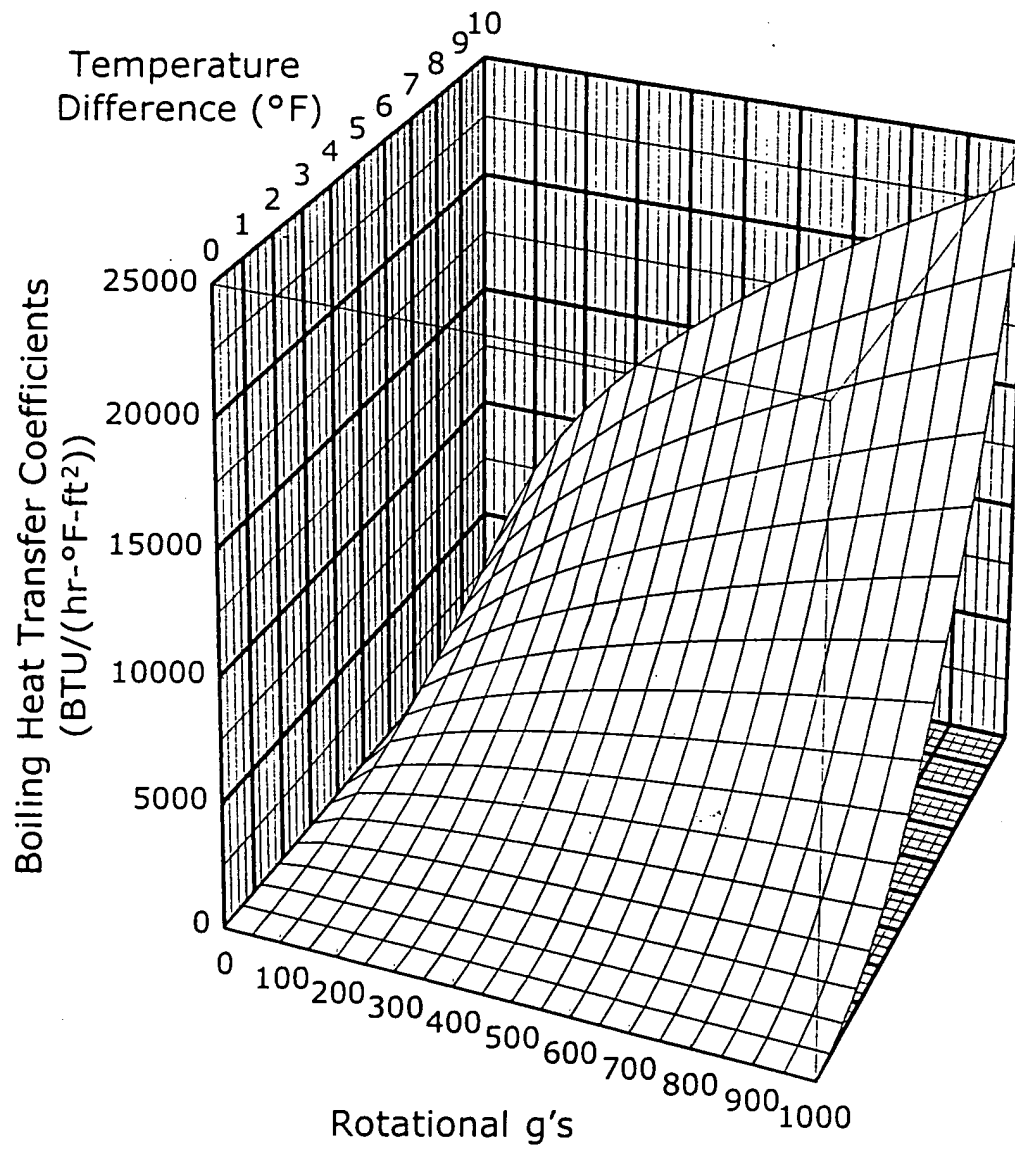


Fig. 21

Boiling Heat Transfer Predictions

90 °F Ambient Input: $C_{sf} = 0.0080$ (Ground Polished Stainless)

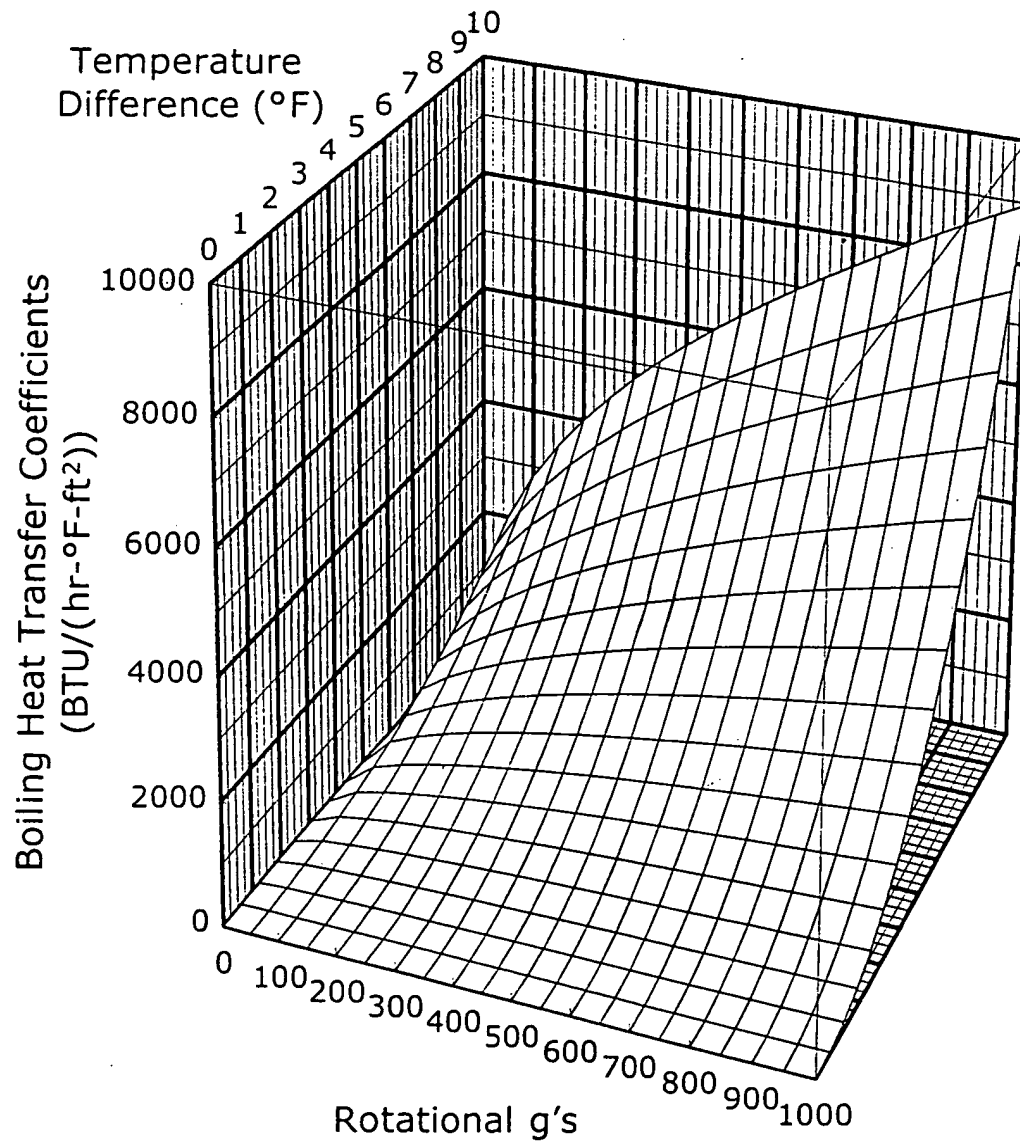


Fig. 22

Boiling Heat Transfer Predictions

110 °F Ambient Input: $C_{SF} = 0.0058$ (Teflon Coated Stainless)

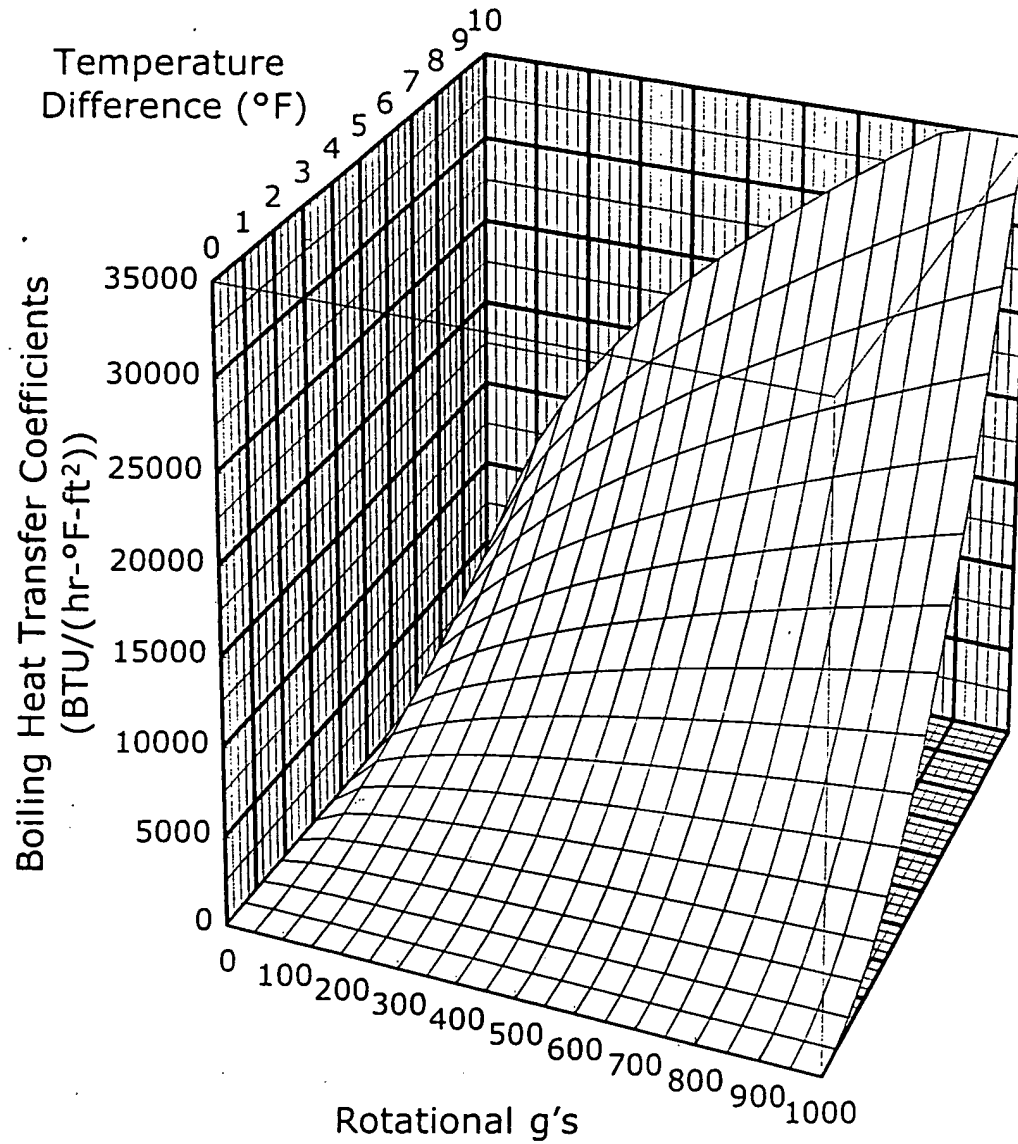


Fig. 23

Boiling Heat Transfer Predictions

110 °F Ambient Input: $C_{SF} = 0.0080$ (Ground Polished Stainless)

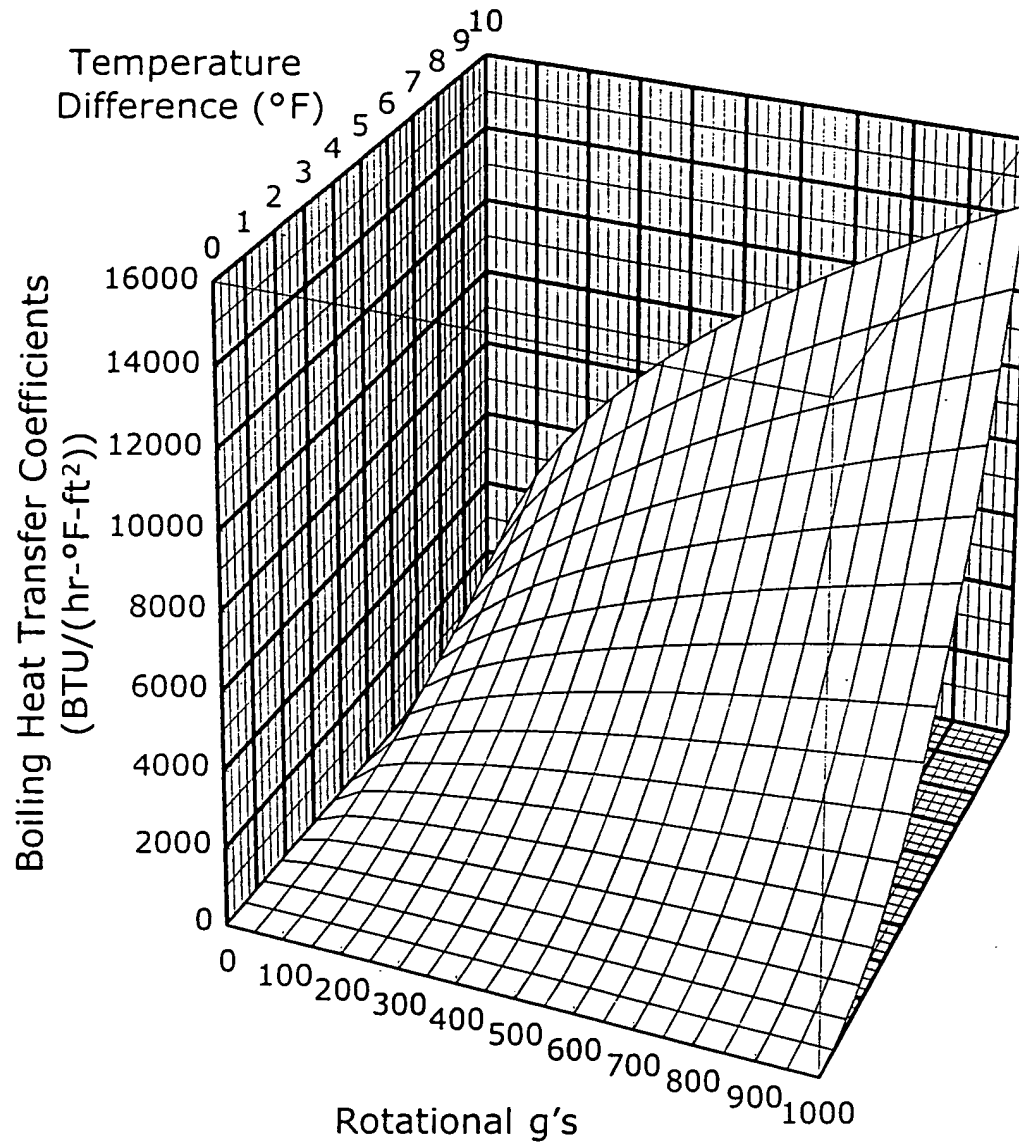


Fig. 24

Boiler Shell Stress No Fluid Loading

5 foot Diameter: 0.015 inch Wall Thickness Stainless Steel

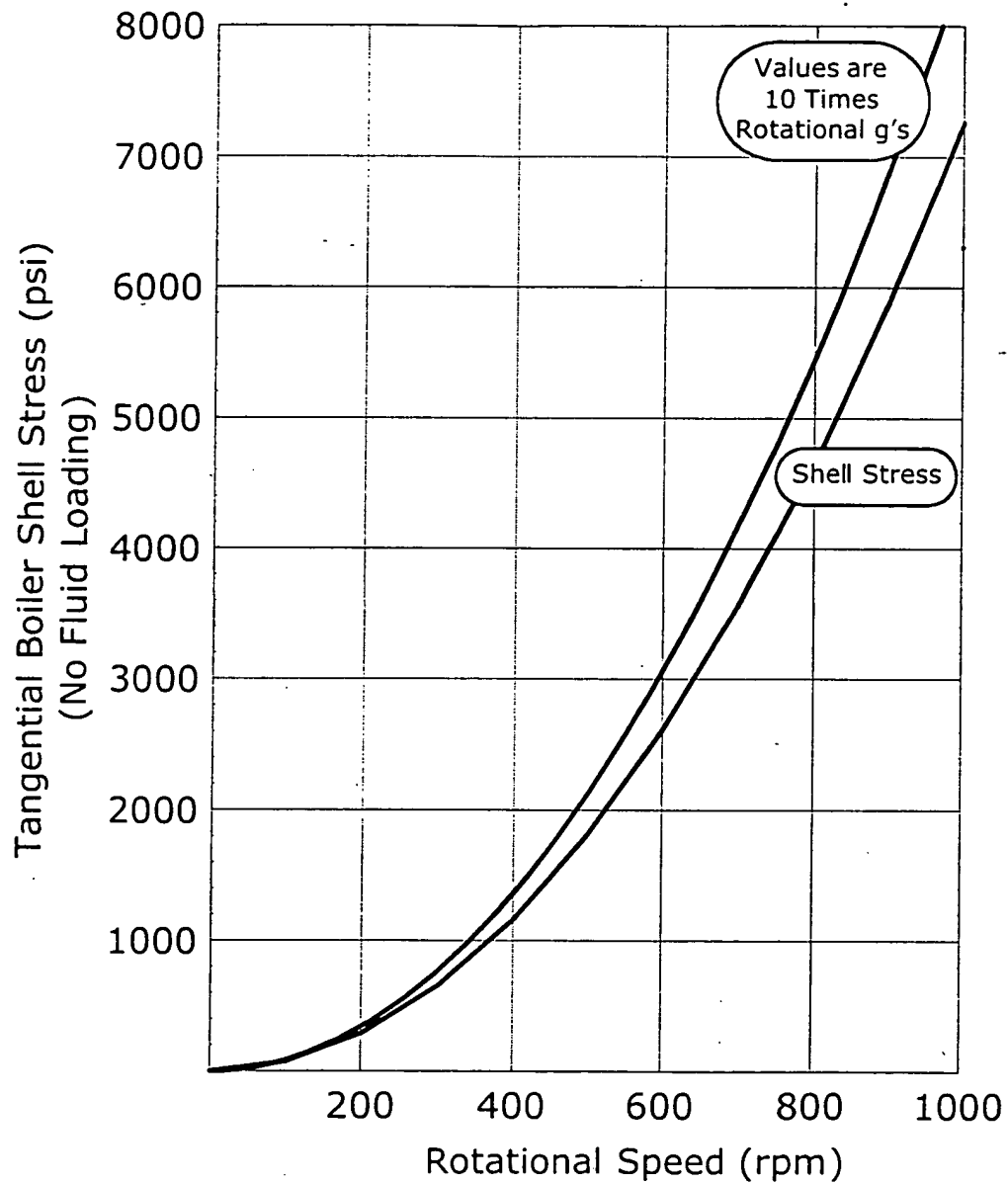


Fig. 25

Boiler Shell Stress With Fluid Loading

5 foot Diameter: 0.015 inch Wall Thickness Stainless Steel
0.07 inch Water Fluid Thickness

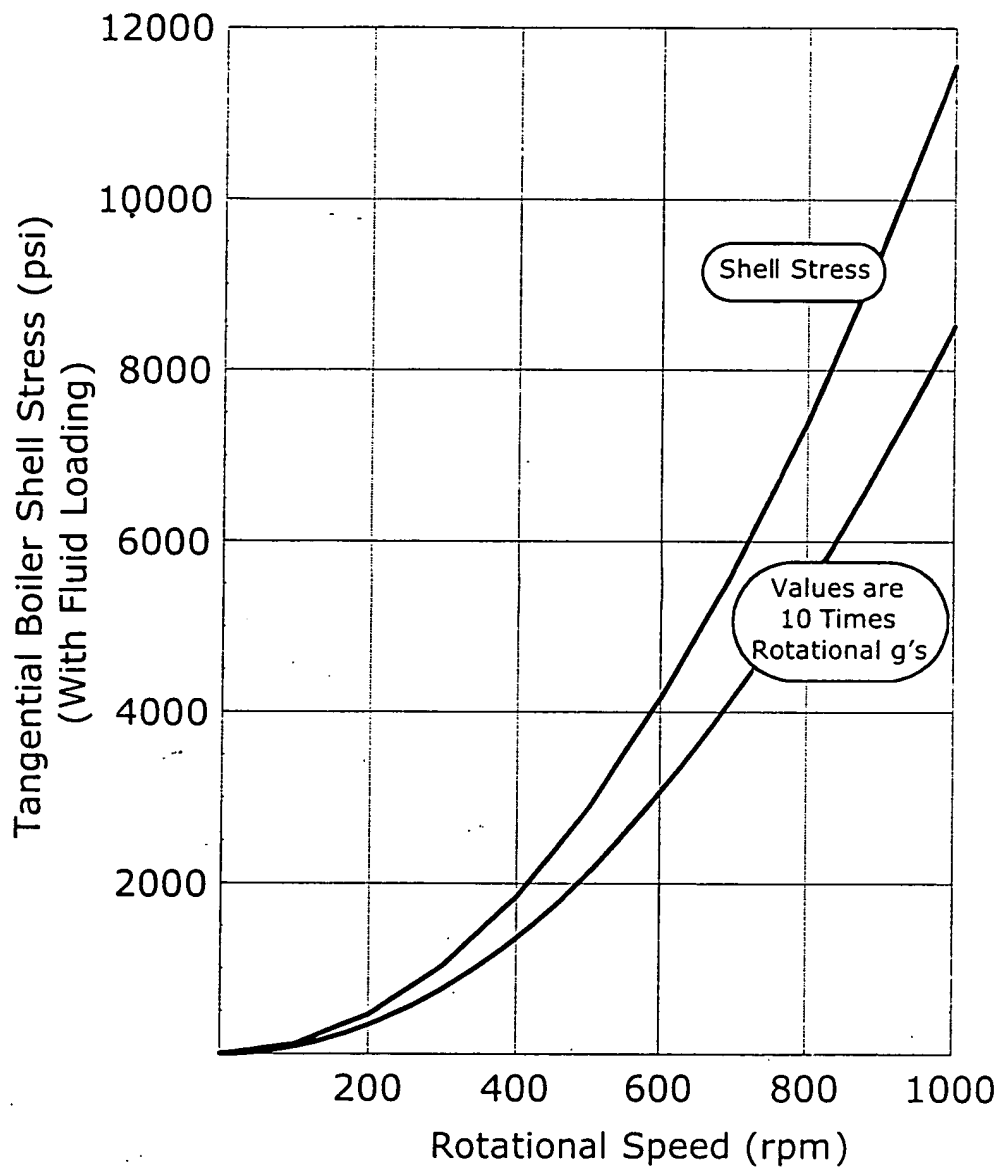


Fig. 26

Boiler Shell Cumulative Area & Weight

2.3 foot Fan Hole; 4 foot Long, 0.75 inch Shell Separation
0.015 inch Shell Thickness

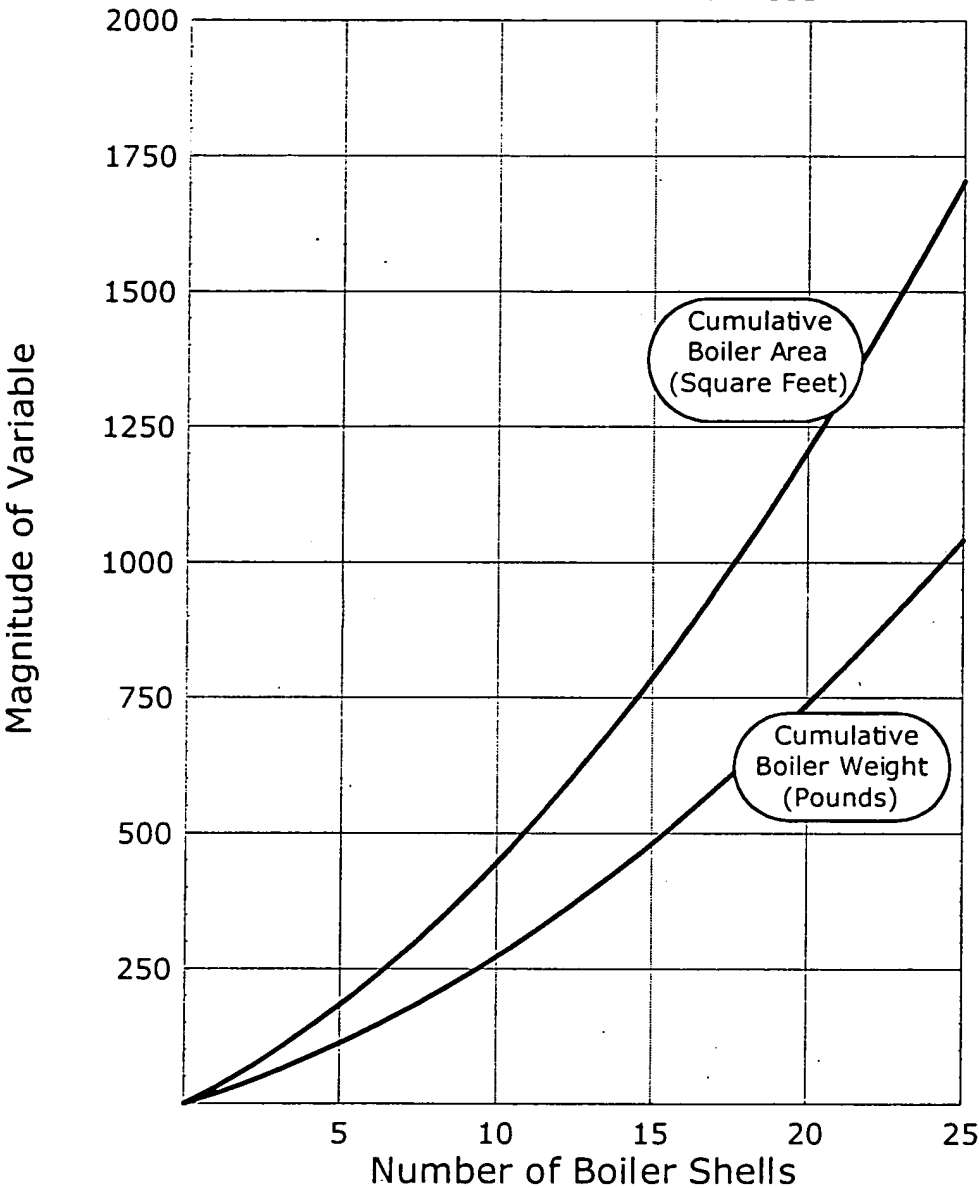


Fig. 27

Energy Usage per Output Pound Water

Assuming 100% Compressor & Motor Efficiency

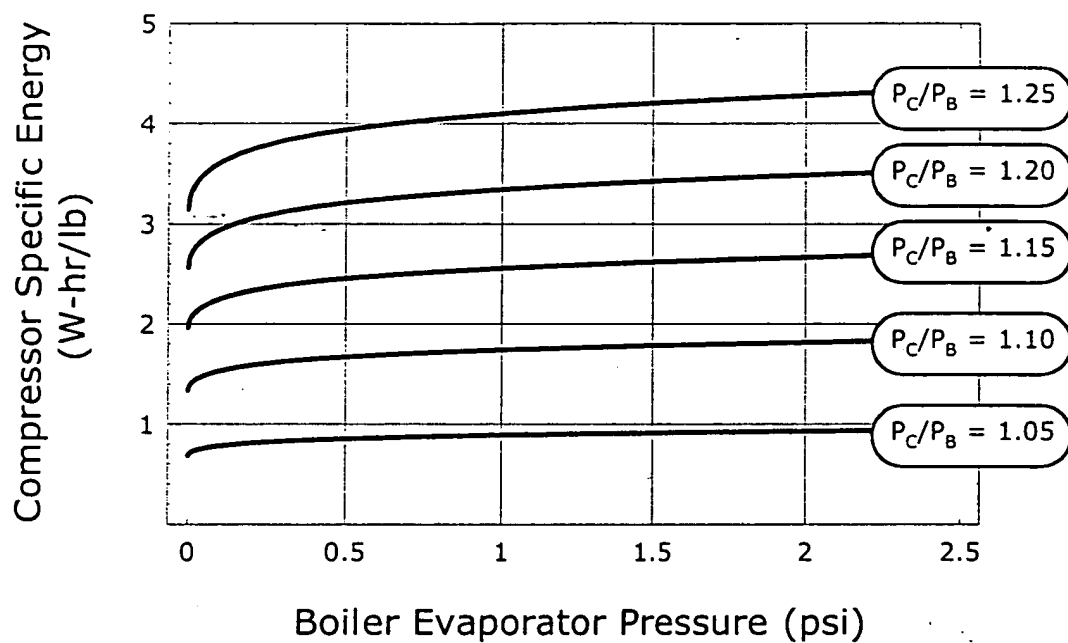


Fig. 28

Energy Usage per Output Pound Water

Assuming 100% Compressor & Motor Efficiency

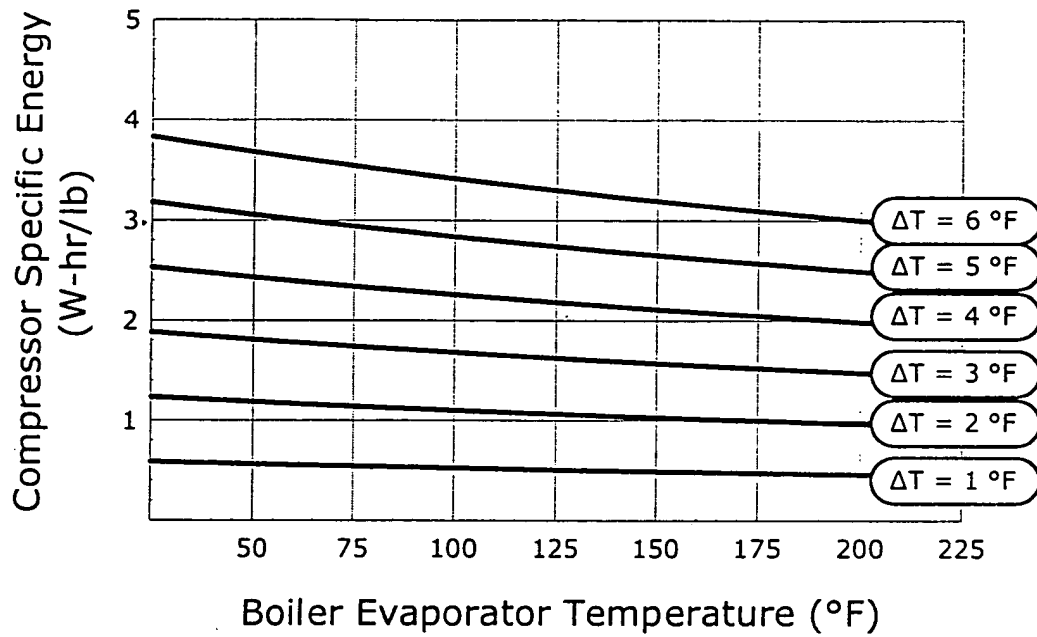


Fig. 29

System Energy Efficiency

Specific Energy Computed at 70 °F Boiler Temperature

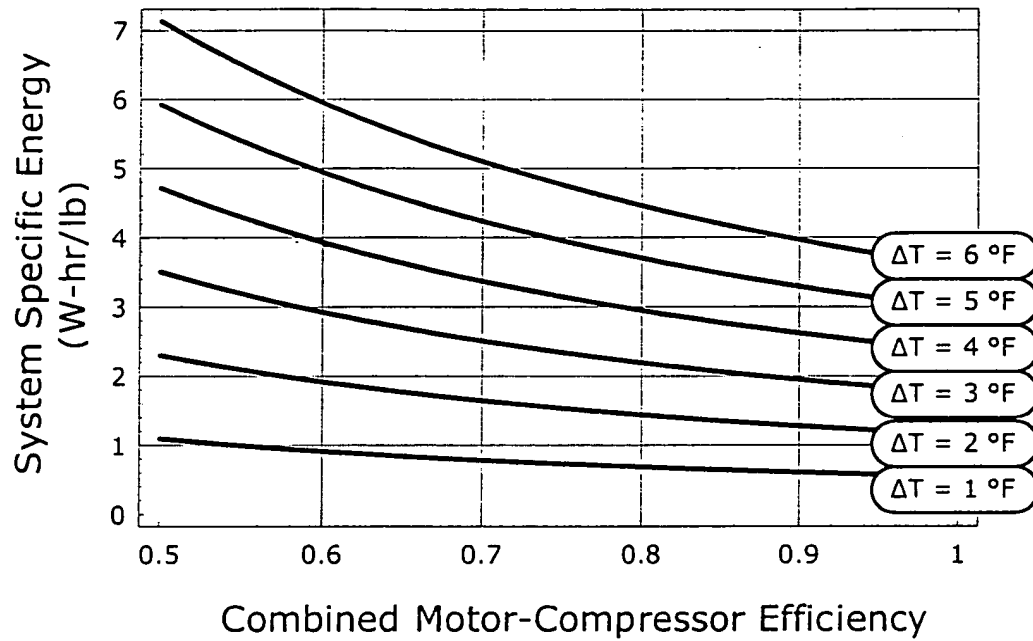


Fig. 30

Seawater Boiling Point Rise

Variable Salinity Concentrations

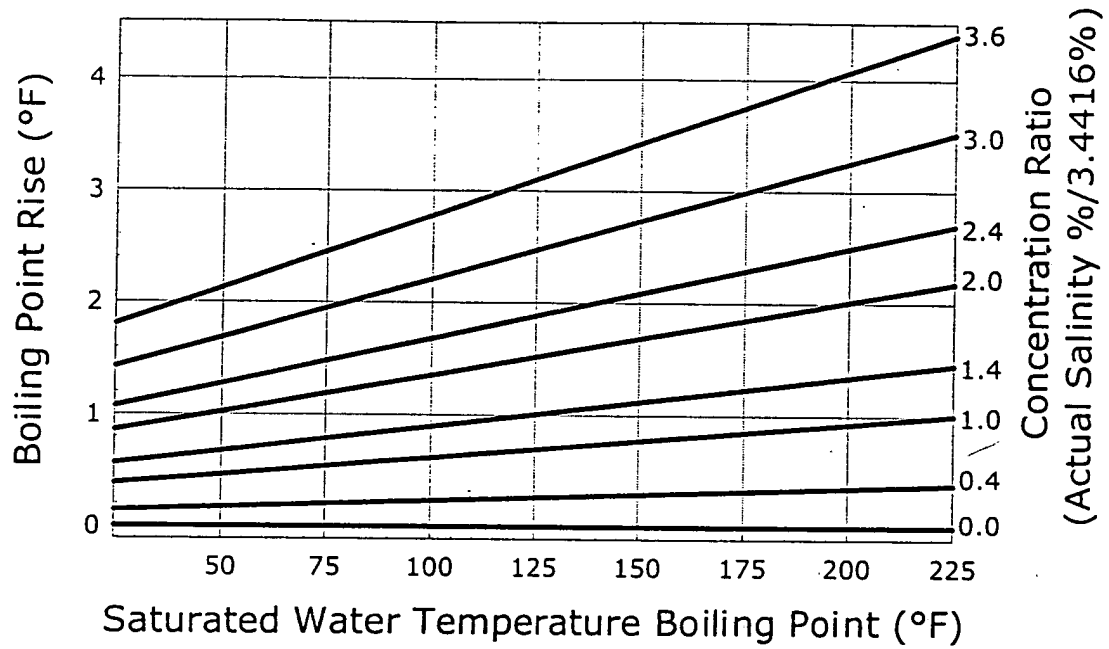


Fig. 31

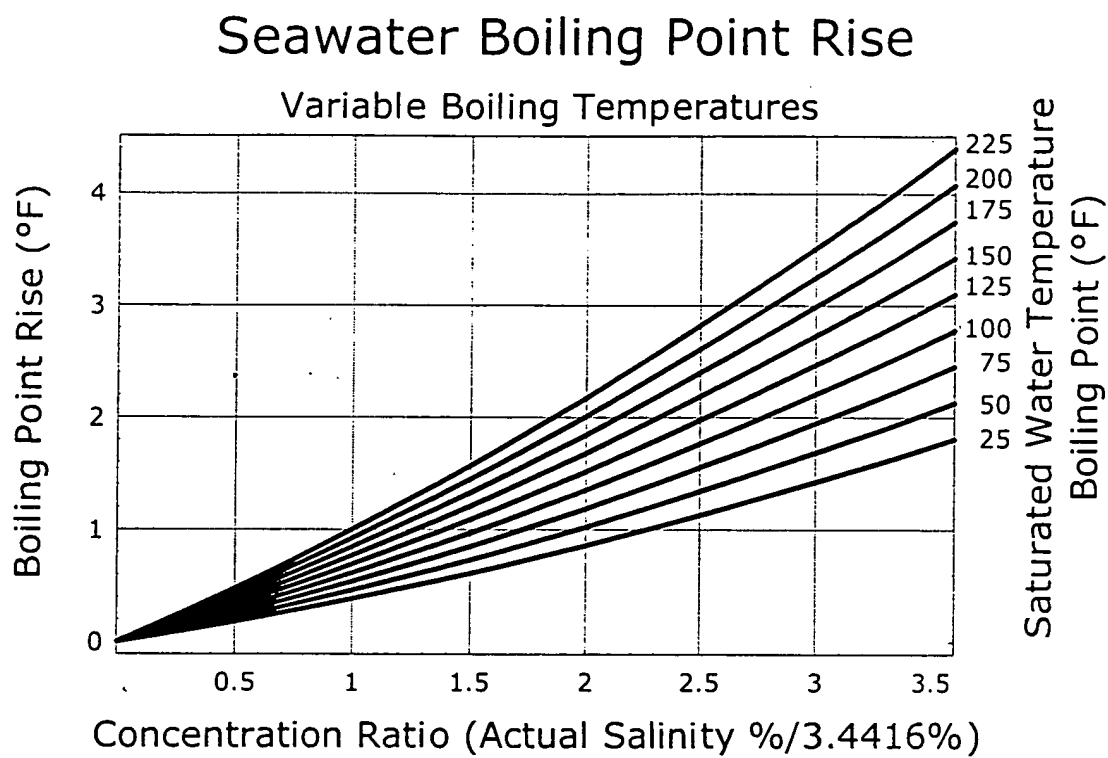


Fig. 32

Seawater Boiling Point Rise

Variable Salinity Concentrations

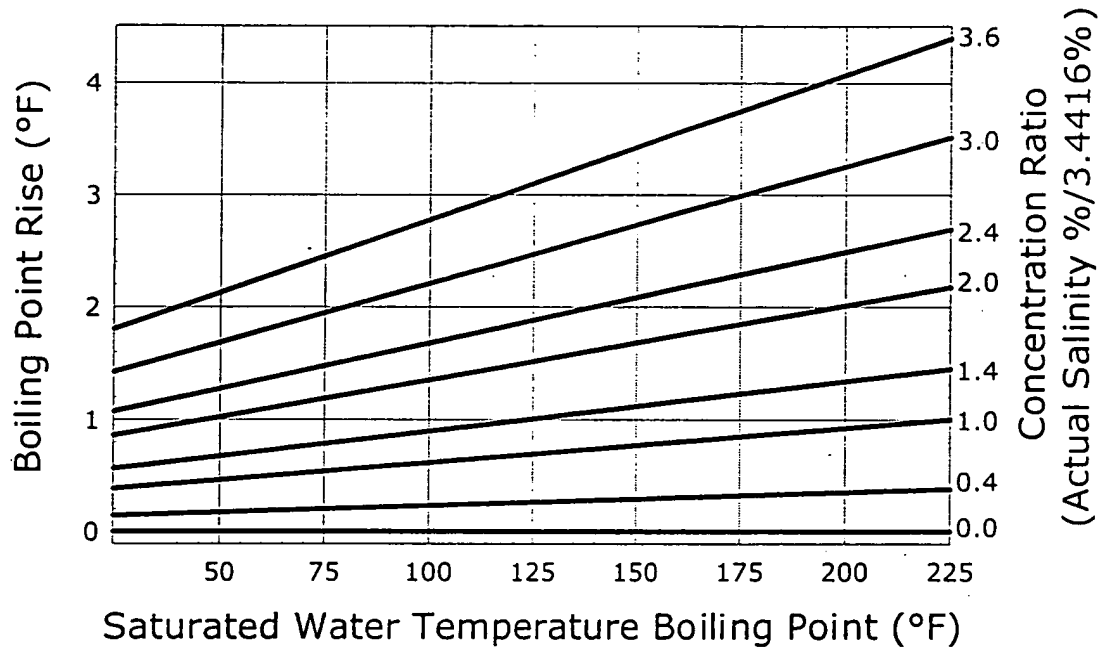


Fig. 31

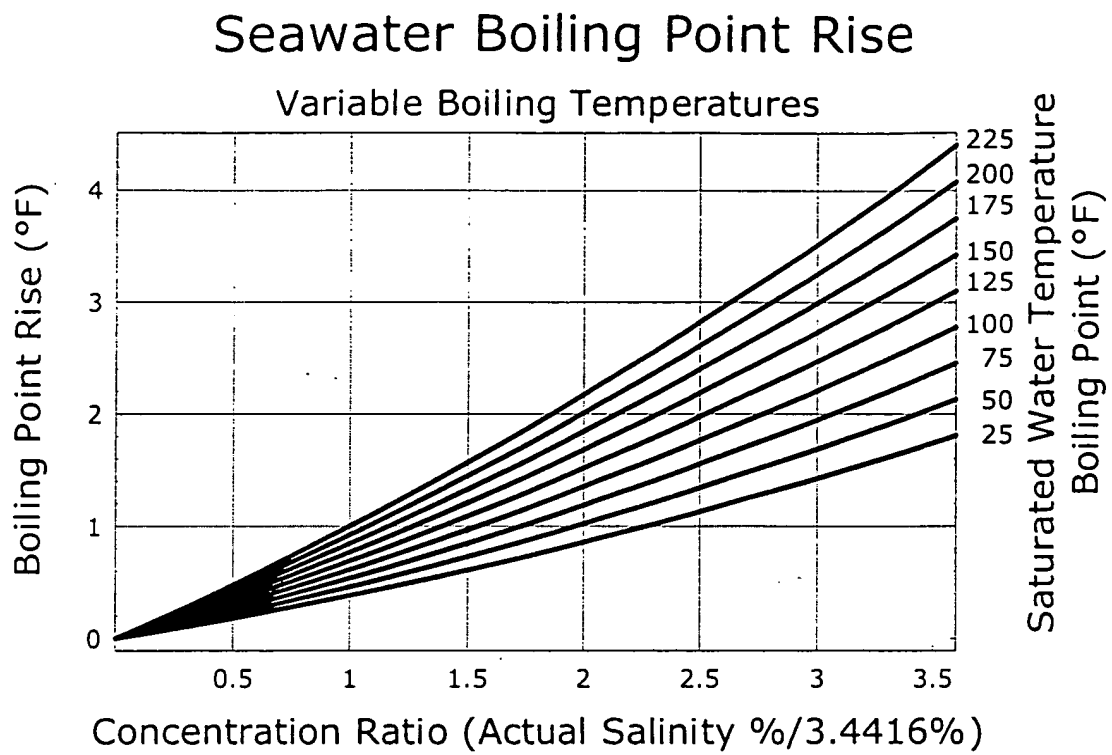


Fig. 32